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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/046,239	01/16/2002	Kyung-Soo Yoo	P56641	4378

7590 05/23/2005

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EXAMINER

HO, TUAN V

ART UNIT	PAPER NUMBER
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2615

DATE MAILED: 05/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/046,239

Applicant(s)

YOO, KYUNG-SOO

Examiner

Tuan V. Ho

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1 and 2 is/are rejected.
- 7) ☒ Claim(s) 3-20 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 12/16/02.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Kudo et al cited by Applicant(US 5,517,243).

With regard to claim 1, Kudo et al discloses in Fig. 6, an image sensing apparatus having a function of preventing a blur of a still image (mechanical shutter 101, col. 6, line 25, and a CCD electronic shutter of the camera, col. 8, line 2, inherently prevent a blur of a still image when the shutters are set at high speeds such as 1/250 or 1/500) that comprises photoelectric transduction unit (CCD image sensor 103, col. 6, line 27), pulse generation unit for outputting a charge extract pulse for extracting charge accumulated in the photoelectric transduction unit, and an erase pulse for erasing the accumulated charge (driving pulse 107 working in combination with system control 110 controls charge accumulations on the CCD sensor by reading out and deleting the charges in electronic shutter operations, col. 6, line 45 and col. 8, line 2); a diaphragm unit for controlling an amount of light incident on the photoelectric

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transduction and a diaphragm driving unit for controlling an open/close operation of the diaphragm unit (shutter 101 serves both as a shutter and a diaphragm for adjusting an amount of incident light, col. 6, line 25-26); control unit for outputting, to the diaphragm driving unit, a first control signal to supply a driving voltage in a direction of opening the diaphragm unit, for outputting, to the diaphragm unit, a second control signal to supply the driving voltage in a direction of closing the diaphragm unit (system controller consisting of a microcomputer generates control signals that controls driving circuit 106 to generates a first and second signals as a form a driving voltages so as to control motor 302 in different directions in order to open and close the diaphragm-shutter 101, col. 6, lines 44-50 and col. 9, lines 1-40), and for controlling the operation of the photoelectric transduction unit, the pulse generation unit, and the diaphragm driving unit (system controller 110, col. 6, line 44+).

With regard to claim 2, Kudo et al discloses in Fig. 6, an image sensing apparatus having a function of preventing a blur of a still image that comprises the diaphragm driving unit comprises a diaphragm motor for opening and closing the diaphragm unit by imparting a rotational movement generated by a magnetic field to the diaphragm unit (motor 302 is used to move

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shutter blades 310 and 311. col. 9, line1-40), and a diaphragm motor driving unit for controlling a direction of rotation and a speed of the diaphragm motor (driving circuit 106 working in combination with system controller 110 so as to control blades 110 and 111 in order to open or close the diaphragm in iris operations and also control the speeds of the blades in shutter operations; noted that shutter 101 serves as a shutter and a diaphragm).

2. Claims 3-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sangregory et al (US 5,173,728) discloses an magnet and shutter assembly that includes an armature for producing a magnet field.

Kobayashi et al (US 5,317,353) discloses a shutter realease device that includes a motor.

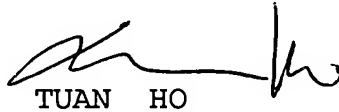
Kondo (US 5,471,242) discloses an iris-shutter including a motor.

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUAN HO whose telephone number is (571) 272-7365. The examiner can normally be reached on Mon-Fri from 7AM to 4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's acting supervisor, JIM GROODY can be reached on (571) 272-7950. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service whose telephone number is (571) 272-2600.



TUAN HO

Primary Examiner

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